WHAT IS CLAIMED IS:

1		1.	A method for fabricating a sensor on a substrate having a pair of			
2	electrodes, said method comprising:					
3		depositing a first layer of conducting material onto said substrate having a				
4	pair of electrodes; and					
5		depositing a second layer of polymer film onto said first layer of				
6	conducting m	acting material thereby fabricating said sensor.				
4		_				
1		2.	The method according to claim 1, wherein said conducting material			
2	comprises carbon black.					
1		3.	The method according to claim 1, wherein said deposition of said			
2	conducting material is by aerosol spraying.					
1		4.	The method according to claim 2, further comprising drying said			
2	carbon black before deposition of said second layer.					
1		5.	The method according to claim 2, wherein said carbon black layer			
2	has a thicknes	ss betwe	een about 0.01 micron to about 10 microns.			
1		6.	The method according to claim 5, wherein said carbon black layer			
2	has a thicknes	ss betwe	en about 0.1 micron to about 1 micron.			
1		7.	The method according to claim 1, further comprising depositing			
2	said first lave		ducting material through a mask.			
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1		8.	The method according to claim 7, wherein said mask comprises a			
2	plurality of ap	ertures.				
1		9.	The method according to claim 1, wherein said deposition of said			
2	first layer of		ing material comprises robotic amateur.			
2	mst layer of (onducti	ng material comprises tobotic amateur.			
1		10.	The method according to claim 1, wherein said deposition of said			
2	second layer	of said p	polymer film comprises robotic amateur.			
1		4.4				
1	.,	11.	The method according to claim 1, further comprising depositing			
2	said second layer of polymer film through a mask.					

1	12. The method according to claim 11, wherein said mask comprises a					
2	plurality of apertures.					
1	13. The method according to claim 1, further comprising processing					
2	said second layer of polymer film after depositing upon said first layer of conducting					
3	material.					
1	14. The method according to claim 13, wherein said processing is a					
2	member selected from the group consisting of vacuum processing, photo-active					
3	polymerization and cross-linking.					
1	15. The method according to claim 1, wherein said sensor is an array					
2	of sensors having a first sensor and a second sensor.					
1	16. The method according to claim 15, wherein said first sensor is					
2	compositionally different than said second sensor.					
1	17. The method according to claim 15, wherein said first sensor has a					
2	different polymer film layer than said second sensor.					
1 .	18. The method according to claim 1, wherein said substrate comprises					
2	a dielectric material.					
1	19. The method according to claim 1, wherein said substrate further					
2	comprises a member selected from the group consisting of a heater, a thermistor and a					
3	combination thereof.					
1	20. The method according to claim 1, wherein said substrate further					
2	comprises a member selected from the group consisting of a temperature probe, humidity					
3	probe and a combination thereof.					
1	21. A method for fabricating a sensor on a substrate having a pair of					
2	electrodes, said method comprising:					
3	depositing a first layer of conducting material onto said substrate having a					
4	pair of electrodes to form a substrate having a conducting material disposed thereon;					
5	processing said substrate having a conducting material disposed thereon to					
6	remove any solvent					

7		depos	siting a second layer of polymer film onto said first layer of			
8	conducting material to form a fabricated sensor; and					
9	processing said fabricated sensor to cure said second layer of polymer					
10	film.					
1		22.	The method according to claim 21, wherein said sensor is an array			
2	of sensors.					